

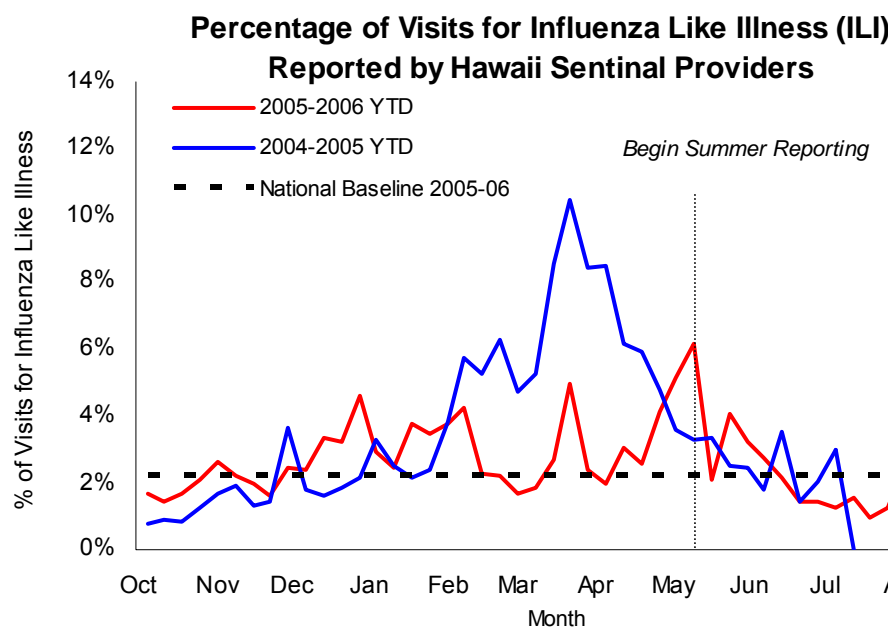
HAWAII STATE DEPARTMENT OF HEALTH DISEASE OUTBREAK CONTROL DIVISION

Influenza Surveillance Report

August 20 – September 2, 2006: MMWR¹ Weeks 34, 35

I. Surveillance of Influenza Like Illness (ILI):

During week 34, 1.4% of patient visits to Hawaii's Sentinel Providers were due to Influenza Like Illness (ILI). The current year's percentage of ILI is higher than the percent ILI reported at the same time last year (0.0%).



II. Pneumonia and Influenza (P&I) Related Mortality²:

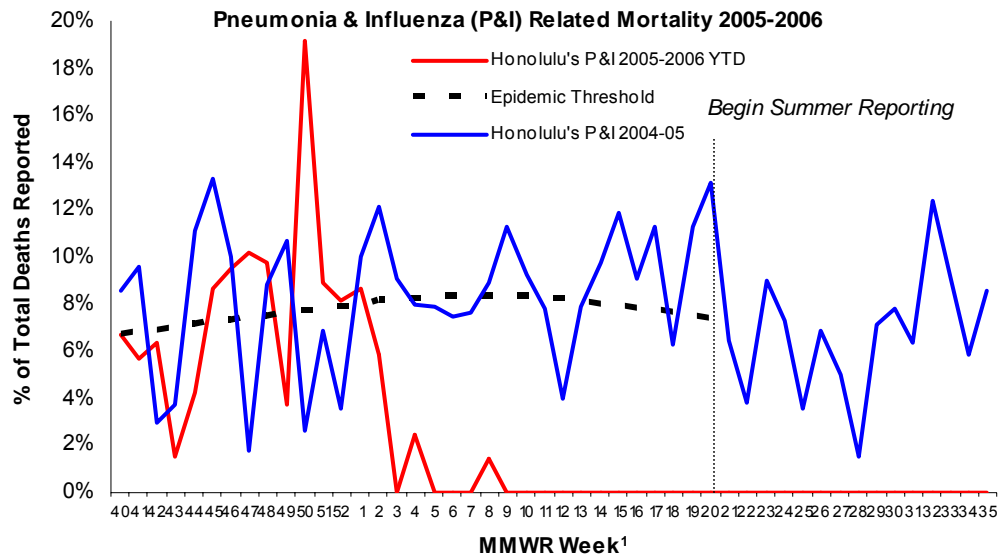
During weeks 34 and 35, no deaths in Honolulu were associated with influenza or pneumonia. The current year's P&I mortality (0%) is lower than the P&I mortality reported at the same time last year (5.8% and 8.6% respectively).

¹ MMWR stands for 'Morbidity and Mortality Weekly Report,' conventionally used by the Centers for Disease Control (CDC). The weeks of a flu season are often referred to by their respective MMWR week. See appendix 1 for interpretation of MMWR weeks.

² This data was reported by the Hawaii State Department of Health Vital Statistics Office.

Influenza Associated Pediatric Mortality²:

There have been no influenza-associated pediatric mortalities in Hawaii during the current flu season.



III. Laboratory Surveillance

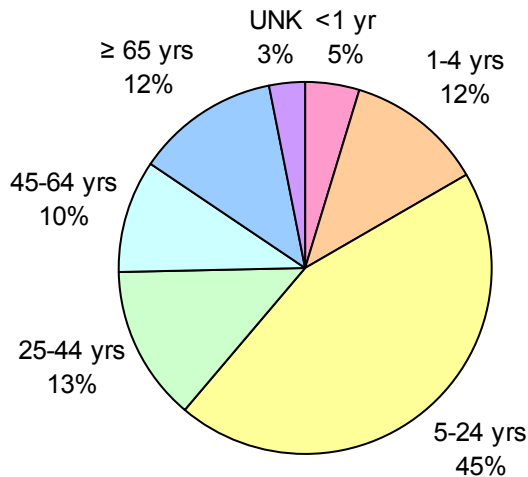
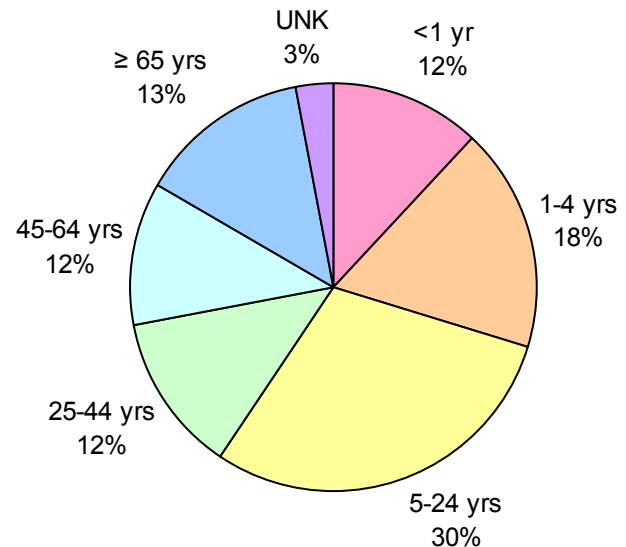
During the 2005-06 flu season, the Hawaii Department of Health (HDOH) experienced the highest influenza specimen submission rate ever recorded. A total of 7,491 specimens were submitted. To accommodate the high specimen volume, to reduce turnaround time, optimize data quality, and improve utilization of limited resources, the Disease Outbreak Control Division (DOCD) and State Laboratories Division (SLD) collaborated this season to develop criteria to prioritize specimens for testing. Specimens that did not meet criteria for testing were archived; they will be stored until the next flu season in case more comprehensive analysis becomes necessary.

A total of **4385** (average 146 specimens/week) specimens were tested by the Hawaii State Laboratories Division (SLD) during the 2005-06 flu season (MMWR week 40, 2005 – week 16, 2006). Starting MMWR week 17, DOH lowered influenza testing from enhanced surveillance (30/day during the flu season) to routine surveillance (15/day during the summer). Currently, SLD is testing an average of 58 specimens per week to continue influenza surveillance throughout the summer season.

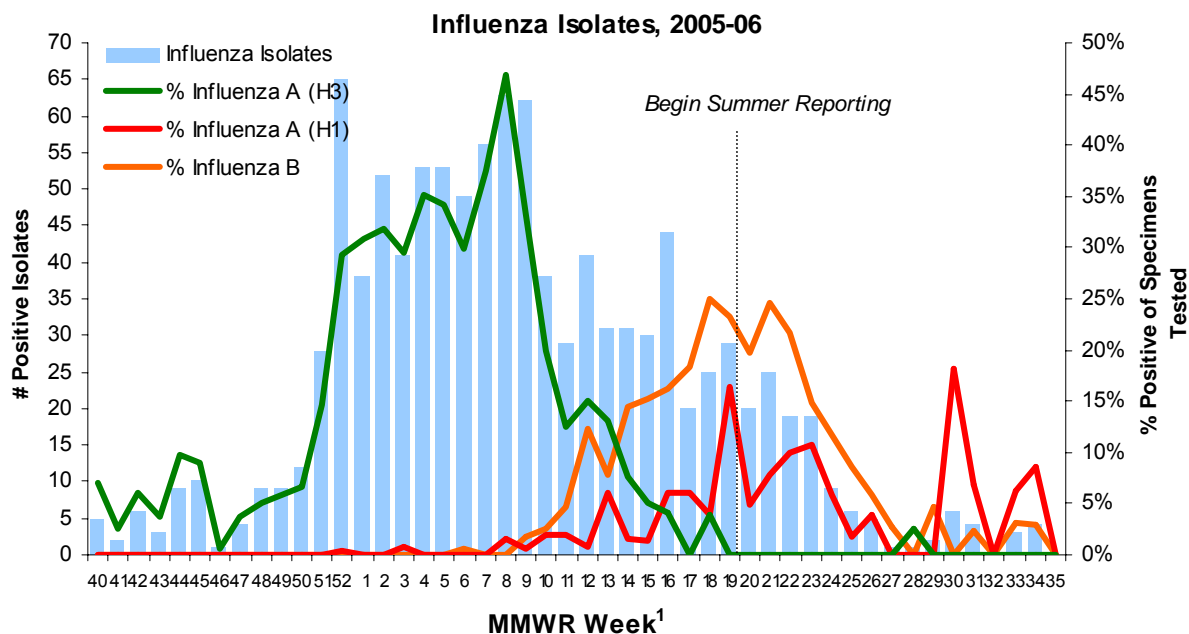
Positive Isolates:

The pie charts below indicate the distribution of specimens tested and positive influenza cases in Hawaii by age group since the beginning of the 2005-06 flu season. Based on this data, school children and young adults (age group 5-24) apparently were most likely to test positive when influenza was suspected (45% of positive influenza cases versus 31% of specimens tested), whereas infants (age group <1 year) were least likely to be positive for influenza and likely to have other etiologies for their respiratory illness (5% of positive influenza cases versus 12% of specimens tested).

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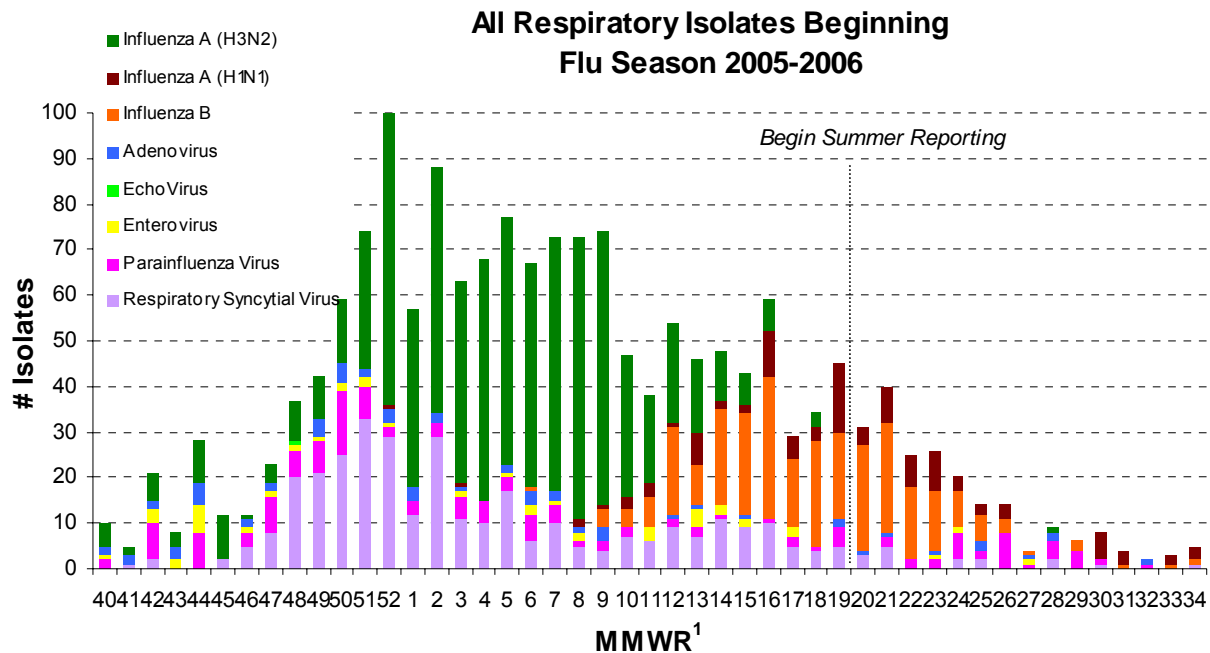
2005-2006 Flu Season/Summer: Positive Influenza Cases by Age Group (to date)**2005-2006 Flu Season: Specimens Tested by Age Group**

A total of 948 (21.6%) of 4,385 specimens tested by SLD were confirmed influenza positive during the 2005-06 flu season (MMWR Week 40, 2005 – Week 19, 2006). Of the 726 specimens tested since the end of the flu season, 124 (17.1%) influenza isolates have been detected by SLD. Of the 1072 influenza isolates detected thus far, 736 (69.1%) were influenza A (H3N2), and 97 (9%) were influenza A (H1N1). There were 239 (22.3%) influenza B cases. Select isolates were sent to the CDC for sub-typing confirmation.

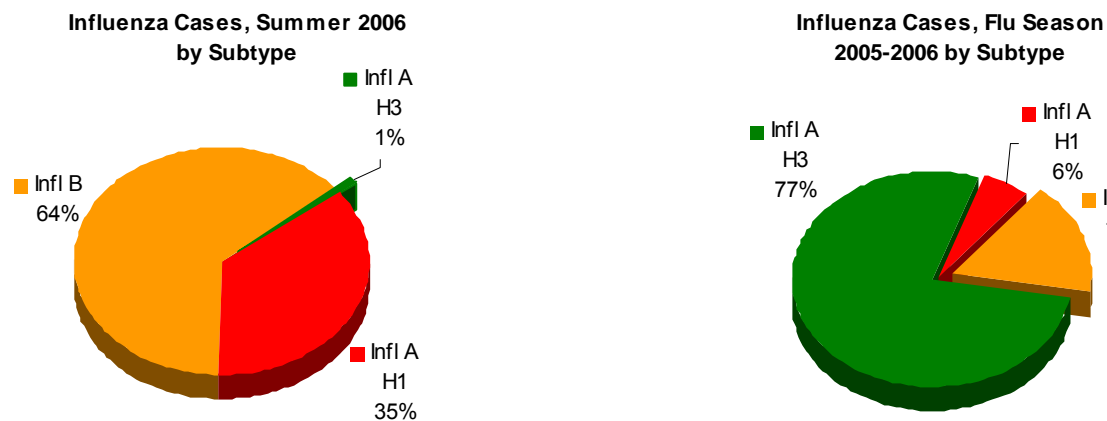


Data courtesy of State Laboratories Division

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The pie charts below indicate the distinctions in flu epidemiology during the 2005-06 influenza season, and the 2006 summer season.



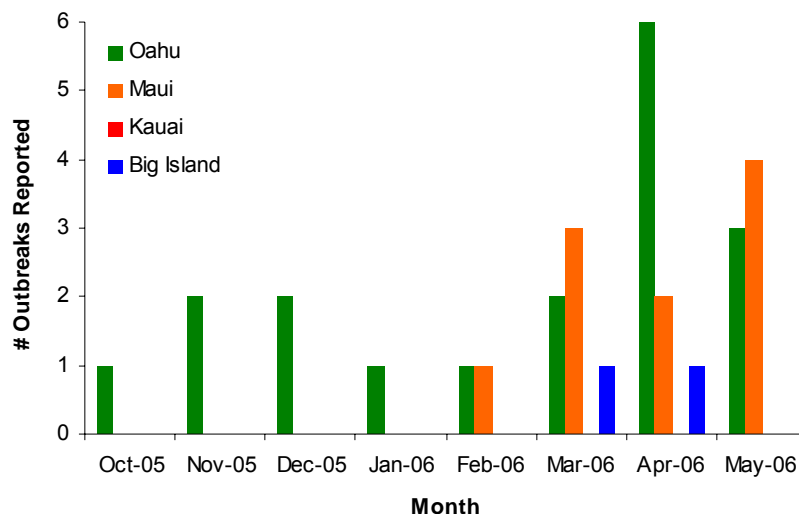
IV. Clustered ILI Activity

During the 2005-06 influenza season, HDOH received 30 reports of influenza like illness outbreaks. Ten reports were from long term care facilities (LTC), and the rest were from schools. Specimens were collected for influenza testing from seventeen institutions (8 LTC (80%) and 9 schools (53%)). Specimens from one suspected outbreak were unacceptable for testing because they leaked in transition to SLD.

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The presence of influenza was ruled out in three facilities, and was confirmed through RT-PCR testing and viral culture in thirteen locations (10 outbreaks of Influenza A, and 3 outbreaks of Influenza B). Since the end of the flu season in mid-May, no new outbreaks have been reported.

ILI Outbreaks by Month and County, Hawaii, 2005-06



V. Avian Influenza

8 September 2006

Country	2003		2004		2005		2006		Total	
	cases	deaths	cases	deaths	cases	deaths	cases	deaths	cases	deaths
Azerbaijan	0	0	0	0	0	0	8	5	8	5
Cambodia	0	0	0	0	4	4	2	2	6	6
China	1	1	0	0	8	5	12	8	21	14
Djibouti	0	0	0	0	0	0	1	0	1	0
Egypt	0	0	0	0	0	0	14	6	14	6
Indonesia	0	0	0	0	19	12	44	36	63	48
Iraq	0	0	0	0	0	0	2	2	2	2
Thailand	0	0	17	12	5	2	2	2	24	16
Turkey	0	0	0	0	0	0	12	4	12	4
Viet Nam	3	3	29	20	61	19	0	0	93	42
Total	4	4	46	32	97	42	97	65	244	143

Total number of cases includes number of deaths.
WHO reports only laboratory-confirmed cases.

Appendix 1: MMWR Week

Please refer to the table below to interpret data presented by MMWR week.

Week Ending	MMWR	Week Ending	MMWR
10/8/05	40	4/8/06	14
10/15/05	41	4/15/06	15
10/22/05	42	4/22/06	16
10/29/05	43	4/29/06	17
11/5/05	44	5/6/06	18
11/12/05	45	5/13/06	19
11/19/05	46	5/20/06	20
11/26/05	47	5/27/06	21
12/3/05	48	6/3/06	22
12/10/05	49	6/10/06	23
12/17/05	50	6/17/06	24
12/24/05	51	6/24/06	25
12/31/05	52	7/1/06	26
1/7/06	1	7/8/06	27
1/14/06	2	7/15/06	28
1/21/06	3	7/22/06	29
1/28/06	4	7/29/06	30
2/4/06	5	8/5/06	31
2/11/06	6	8/12/06	32
2/18/06	7	8/19/06	33
2/25/06	8	8/26/06	34
3/5/06	9	9/2/06	35
3/11/06	10	9/9/06	36
3/18/06	11	9/16/06	37
3/25/06	12	9/23/06	38
4/1/06	13	9/30/06	39